

SEQUENCE LISTING

<110> Miyata, Toshio

<120> A METHOD FOR DETECTING MEGSIN PROTEIN
AND USE THEREOF

<130> SHIM012

<140> To Be Assinged

<141> 2000-03-17

<150> PCT/JP00/01646

<151> 2000-03-17

<150> 11/75305

<151> 1999-03-19

<150> 11/306623

<151> 1999-10-28

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1867

<212> DNA

<213> Homo sapiens

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cctctctcag attgataagt tgcttcatgt taacactgcc tcaassrusr gnasysuuhs 300
vaasnthraa srggatatgg aaactcttct aatagtcatg cagggctcca gtctcaactg 360
gytyrgyasn srsrasnsrg nsrygugnsr gnuaaaaagag tttttctga tataaatgca 420
tcccacaagg attatgatct cysargvahs rasasnaasr hsysastyra suagcattgt 480
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aaaatgaaac acatggcaaa atcaagaacg tgattggtga atrvaguasn guthrhsgyy 780
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asrcysr 1867

<210> 2

<211> 380

<212> PRT

<213> Homo sapiens

<400> 2

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Leu Ser Leu Phe Ala Ala Leu Ala Leu Val Arg Leu Gly Ala Gln Asp
35 40 45
Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His Val Asn Thr Ala Ser
50 55 60
Gly Tyr Gly Asn Ser Ser Asn Ser Gln Ser Gly Leu Gln Ser Gln Leu
65 70 75 80
Lys Arg Val Phe Ser Asp Ile Asn Ala Ser His Lys Asp Tyr Asp Leu
85 90 95
Ser Ile Val Asn Gly Leu Phe Ala Glu Lys Val Tyr Gly Phe His Lys
100 105 110
Asp Tyr Ile Glu Cys Ala Glu Lys Leu Tyr Asp Ala Lys Val Glu Arg
115 120 125
Val Asp Phe Thr Asn His Leu Glu Asp Thr Arg Arg Asn Ile Asn Lys
130 135 140
Trp Val Glu Asn Glu Thr His Gly Lys Ile Lys Asn Val Ile Gly Glu
145 150 155 160
Gly Gly Ile Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
165 170 175
Phe Lys Gly Lys Trp Gln Ser Ala Phe Thr Lys Ser Glu Thr Ile Asn
180 185 190
Cys His Phe Lys Ser Pro Lys Cys Ser Gly Lys Ala Val Ala Met Met
195 200 205
His Gln Glu Arg Lys Phe Asn Leu Ser Val Ile Glu Asp Pro Ser Met
210 215 220
Lys Ile Leu Glu Leu Arg Tyr Asn Gly Ile Asn Met Tyr Val Leu
225 230 235 240
Leu Pro Glu Asn Asp Leu Ser Glu Ile Glu Asn Lys Leu Thr Phe Gln
245 250 255
Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
260 265 270
Glu Val Phe Phe Pro Gln Phe Lys Ile Glu Lys Asn Tyr Glu Met Lys
275 280 285
Gln Tyr Leu Arg Ala Leu Gly Leu Lys Asp Ile Phe Asp Glu Ser Lys
290 295 300
Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg

305 310 315 320
Met Met His Lys Ser Tyr Ile Glu Val Ile Glu Glu Gly Thr Glu Ala
325 330 335
Thr Ala Ala Thr Gly Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser
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<220>
<223> Artificially synthesized degenerative primer
sequence

<400> 3
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<210> 4
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sequence

<400> 4
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sequence

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<223> Artificially synthesized domain peptide of human
megsin

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megsin

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<210> 13
<211> 16
<212> PRT
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<223> Artificially synthesized domain peptide of human
megsin

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<210> 14
<211> 16
<212> PRT
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<220>
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megsin

<400> 14
Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
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<210> 15
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megsin

<400> 15

Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser Thr Leu Phe Arg
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<213> Artificial Sequence

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<223> Artificially synthesized domain peptide of human
megsin

<400> 16

Leu Gly Leu Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp
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<210> 17

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Artificially synthesized domain peptide of human
megsin

<400> 17

Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser Thr Val
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<210> 18

<211> 1938

<212> RNA

<213> Rattus norvegicus

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shsrccatca agacaaggga attcatcgaa cagtcagcta ggactgcaat atrsrggn 360
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tcatcttatt tactggcaaa gtctcggtc ctysasngyu hthrgyysva srcysrtgaa 1860
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<210> 19

<211> 380

<212> PRT

<213> Rattus norvegicus

<400> 19

Met Ala Ser Leu Ala Ala Ala Asn Ala Glu Phe Gly Phe Asp Leu Phe
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Leu Ser Ile Phe Thr Ala Leu Ser Leu Ile Arg Leu Gly Ala Arg Gly
35 40 45
Asp Cys Xaa Arg Gln Ile Asp Lys Ala Leu His Phe Ile Ser Pro Ser
50 55 60
Arg Gln Gly Asn Ser Ser Asn Ser Gln Leu Gly Leu Gln Tyr Gln Leu
65 70 75 80
Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys Asp Xaa Lys Leu
85 90 95
Ser Ile Ala Asn Gly Val Phe Ala Glu Lys Val Phe Asp Phe His Lys
100 105 110
Ser Tyr Met Glu Cys Ala Glu Asn Leu Tyr Asn Ala Lys Val Glu Arg
115 120 125
Val Asp Phe Thr Asn Asp Ile Gln Glu Thr Arg Phe Lys Ile Asn Lys
130 135 140
Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys Val Leu Gly Asp
145 150 155 160
Ser Ser Leu Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
165 170 175
Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Ser Asp Thr Leu Ser
180 185 190
Cys His Phe Arg Ser Pro Ser Gly Pro Gly Lys Ala Val Asn Met Met
195 200 205
His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln Glu Pro Pro Met

210	215	21
Gln Ile Leu Glu Leu Gln Tyr His Gly Gly Ile Ser Met Tyr Ile Met		
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Leu Pro Glu Asp Asp Leu Ser Glu Ile Glu Ser Lys Leu Ser Phe Gln		
245	250	255
Asn Leu Met Asp Trp Thr Asn Ser Arg Lys Met Lys Ser Gln Tyr Val		
260	265	270
Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asp Tyr Glu Met Arg		
275	280	285
Ser His Leu Lys Ser Val Gly Leu Glu Asp Ile Phe Val Glu Ser Arg		
290	295	300
Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Val Ser Lys		
305	310	315
Leu Met His Lys Ser Leu Ile Glu Val Ser Glu Glu Gly Thr Glu Ala		
325	330	335
Thr Ala Ala Thr Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser		
340	345	350
Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val Ile Arg Lys Asn		
355	360	365
Gly Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro		
370	375	380

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 <211> 1848
 <212> DNA
 <213> Mus Musculus

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 gaactacatt gagtgtgcgt aaaaacttata caatgctash hsysasntyg gucysaagua 540
 snutyrasna aaaagtggaa agagttgact tcacaaatga tgtacaagat accagattt 600
 svaguargva ashthrasna svagnastrh arghaaaatt aataaaatgga ttgaaaatga 660
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 gacagcagcc tcagctcgtc ggctgtcatg gtgctggtv augyassrsr usrsrsraav 780
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rhguvasrgu guggcactga agccactgc acagaaaa ataacattgt tgaaaagcag 1620
gythrguaat hraaaathrg uasnasnvg dsgnctcc tgagtccaca gtgtcagag 1680
ccgaccgccc cttctgtt gtcurgusrt hrhargaa asargrhuhv aatcaagaag 1740
aatgacatca tcttattac tggcaaagtc tcttgccty sysasnsh thrgyysvas 1800
rcysrtgaaa ttgcatttg ttcctatac agtaacaggc atcaagaa 1848

<210> 21

<211> 368

<212> PRT

<213> Mus musculus

<400> 21

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Gly Ala Arg Gly Asp Cys Ala Arg Gln Ile Asp Lys Ala Leu His Phe
35 40 45

Asn Ile Pro Ser Arg Gln Gly Asn Ser Ser Asn Asn Gln Pro Gly Leu
50 55 60

Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys
65 70 75 80

Asp Tyr Glu Leu Ser Ile Ala Thr Gly Val Phe Ala Glu Lys Val Tyr
85 90 95

Asp Phe His Lys Asn Tyr Ile Glu Cys Ala Glu Asn Leu Tyr Asn Ala
100 105 110

Lys Val Glu Arg Val Asp Phe Thr Asn Asp Val Gln Asp Thr Arg Phe
115 120 125

Lys Ile Asn Lys Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys
130 135 140

Val Leu Gly Asp Ser Ser Leu Ser Ser Ala Val Met Val Leu Val
145 150 155 160

Asn Ala Val Tyr Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Thr
165 170 175

Asp Thr Leu Ser Cys Arg Phe Arg Ser Pro Thr Cys Pro Gly Lys Val
180 185 190

Val Asn Met Met His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln
195 200 205

Gln Pro Pro Met Gln Val Leu Glu Leu Gln Tyr His Gly Ile Ser
210 215 220

Met Tyr Ile Met Leu Pro Glu Asp Gly Leu Cys Glu Ile Glu Ser Lys
225 230 235 240

Leu Ser Phe Gln Asn Leu Met Asp Trp Thr Asn Arg Arg Lys Met Lys
245 250 255

Ser Gln Tyr Val Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asn
260 265 270

Tyr Glu Met Thr His His Leu Lys Ser Leu Gly Leu Lys Asp Ile Phe
275 280 285

Asp Glu Ser Ser Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu
290 295 300

Tyr Val Ser Lys Leu Met His Lys Ser Phe Ile Glu Val Ser Glu Glu
305 310 315 320

Gly Thr Glu Ala Thr Ala Ala Thr Glu Asn Asn Ile Val Glu Lys Gln
325 330 335

Leu Pro Glu Ser Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val

340 345 50
Ile Lys Lys Asn Asp Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
355 360 365